LIST OF PUBLICATIONS

Refereed papers

- 1. **Y. Ryabov**, J.-Y. Suh, A. Grishaev, G. M. Clore, C. D. Schwieters, "Using the Experimentally Determined Components of the Overall Rotational Diffusion Tensor To Restrain Molecular Shape and Size in NMR Structure Determination of Globular Proteins and Protein-Protein Complexes" *Journal of the American Chemical Society*, 131(27) (2009) pp. 9522–9531.
- 2. **Y. Ryabov**, M. Gribskov, "Spontaneous symmetry breaking in genome evolution" *Nucleic Acids Research*, 36(8) (2008) pp. 2756-2763.
- 3. **Y. Ryabov**, D. Fushman "Structural Assembly of Multidomain Proteins and Protein Complexes Guided by the Overall Rotational Diffusion Tensor" *Journal of the American Chemical Society*, 129(25) (2007) pp. 7894-7902.
- 4. **Y. Ryabov,** C. White, Yi Xue, and N. R. Skrynnikov "Introducing color into stacking gels makes sample loading easy", *Analytical Biochemistry*, 366(1) (2007) pp. 111-112.
- 5. Yi Xue, M. S. Pavlova, **Y. Ryabov**, B Reif, N. R. Skrynnikov "Methyl rotation barriers in proteins from ²H relaxation data. Implications for protein structure." *Journal of the American Chemical Society*, 129(21) (2007) pp. 6827-6838.
- 6. **Y. Ryabov**, D. Fushman "A Model of Interdomain Mobility in a Multi-Domain Protein" *Journal of the American Chemical Society*, 129(11) (2007) pp. 3315-3327.
- 7. **Y. Ryabov**, C. Geraghty, A. Varshney, and D. Fushman, "An efficient computational method for predicting rotational diffusion tensors of globular proteins using an ellipsoid representation", *Journal of the American Chemical Society*, 128(48), (2006) pp. 15432-15444.
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- 10. **Y. Ryabov**, D. Fushman, "Interdomain Mobility in Di-Ubiquitin Revealed by NMR", *PROTEINS: Structure, Function, and Bioinformatics*, v. 63 (2006) pp. 787-796.
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- 21. **Y. Ryabov**, Yu. Feldman Reply to 'Comment on' Novel approach to the analysis of the Non-Debye dielectric spectrum broadening " ' *Physica A*, v. 326 (2003) pp. 607-608.
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Patents and patent applications

- 37. A. Caduff, P. Truffer, **Y. Ryabov**, Y. Feldman, A. Puzenko "A method and device for determining a parameter of living tissue" WO 2005/120332.
- 38. Y. Feldman, A Khain, M. Pinsky, V. Arkhipov, Y. Ryabov, A. Puzenko "Apparatus for controlling atmospheric conditions", WO 2005/053379.
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- 41. **Y. Ryabov**, "Structural Information from Protein Dynamics: restraints on protein shape encoded in protein rotational diffusion tensor", National Institutes of Diabetes and Digestive and Kidney Diseases, National Institutes of Health, Bethesda, March, 18, 2009.
- 42. **Y. Ryabov**, "Concepts of Computational Biology", Johns Hopkins University, Montgomery County Campus, June, 24, 2008.
- 43. **Y. Ryabov**, "Structural and Computational Biology: relationship between structure and dynamics of proteins", Kazan Institute of Biochemistry and Biophysics, Kazan Science Centre of Russian Academy of Sciences, Kazan, Russia, May, 29, 2008.
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- 45. **Y. Ryabov**, "Multi-domain protein Structure and Dynamics with insights for bioinformatics", Indiana University, Bloomington, March, 16, 2007.
- 46. Y. Ryabov, "Dynamics of Di-Ubiquitin" Purdue University, March, 2006.

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- 47. Y. Feldman, A. Puzenko and **Y. Ryabov**, "Chapter 1. Dielectric Relaxation Phenomena in Complex Materials", pp. 1-125, Advances in Chemical Physics, Volume 133, Part A, Fractals, Diffusion and Relaxation in Disordered Complex Systems, Yuri P. Kalmykov (Editor), William T. Coffey (Editor), Stuart A. Rice, ISBN: 0-471-72507-2, Hardcover, 592 pages, July 2006.
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